

General Terms of Approval - Issued



Notice No: 1579749

The General Manager
Forbes Shire Council
PO Box 333
Forbes NSW 2871

Attention: Ms Alexandra Power

Notice Number 1579749
Date 17-May-2019

Dear Ms Power

Darroobalgie waste management facility - proposed expansion (DA2018/41)
Issued pursuant to Section 4.46 Environmental Planning and Assessment Act 1979

I refer to the development application and accompanying information provided for the proposed expansion of the Darroobalgie waste management facility (the proposal) received by the Environment Protection Authority (EPA) on 5 October 2018 and 20 March 2019.

The EPA has reviewed the information provided and has determined that it is able to issue a variation to the Darroobalgie waste disposal depot licence (environment protection licence 6118) for the proposal, subject to a number of conditions. The applicant will need to make a separate application to EPA to obtain this licence variation.

The general terms of approval for this proposal are provided at **Attachment A**. If the consent authority, the Western Regional Planning Panel, grants development consent for this proposal these conditions should be incorporated into the consent. In preparing these terms, the EPA has assessed the proposal against the minimum standards given in the *Environmental Guidelines: Solid Waste Landfills* (EPA, April 2016; the landfill guidelines) and makes the following comments:

- **Quality assurance:** the EPA relies on specifications for construction materials, construction quality assurance (CQA) plans and post-construction CQA reports to assess landfill design and construction. Without the required technical detail, the EPA cannot yet approve the proposed new landfill cells.
- **Leachate liner:** the landfill guidelines permit geosynthetic liners but these must be genuine composite liners, with a geosynthetic liner accompanied by another type of geosynthetic liner or by a compacted clay liner (engineered compacted clay or geosynthetic clay). The "compacted soil" proposed with the geomembrane appears to be a bedding layer, rather than an impermeable engineered clay liner.
- **Protection geotextile:** the landfill guidelines require a protection geotextile above all geomembranes, not just "where required" (as described in the proposal on drawing C031 "Typical Liner Details").

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- **Leachate storage:** the landfill guidelines require a dam (or tanks) to store leachate. A dam facilitates leachate collection and evaporation, and facilitates sustainable leachate irrigation and re-injection.
- **Cell 4E (piggyback cell):** the landfill guidelines require a specially-prepared "piggyback" liner when landfilling over a closed landfill cell. The EPA recommends that approval of Cell 4E, which is a piggyback cell proposed for construction approximately 45 years from now, is postponed.
- **Final capping (phytocap):** the EPA agrees that the Forbes climate is likely to be suitable for a phytocap. However without the required technical detail, the EPA cannot yet approve the phytocap.

These general terms relate to the development as proposed in the documents and information currently provided to EPA. In the event that the development is modified either by the applicant prior to the granting of consent or as a result of the conditions proposed to be attached to the consent, it will be necessary to consult with EPA about the changes before the consent is issued. This will enable EPA to determine whether its general terms need to be modified in light of the changes.

To eliminate the need for ongoing modifications to consents for matters that are the responsibility of the EPA and to provide the EPA with improved flexibility regarding the licence conditions, the EPA has also provided at **Attachment B** the additional conditions that are proposed to be placed on the licence should the proposal be approved. These conditions are provided for the proponent's and the consent authority's reference only and should not be included in the approval document unless deemed necessary for the consent authority's own specific purposes.

If you have any questions, or wish to discuss this matter further please contact Ms Alex McGuirk at the EPA's Central West (Bathurst) office on 6333 3807.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'D Clift', positioned above a dotted line.

Darryl Clift
Unit Head
Central West

(by Delegation)

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Attachment A

General terms of approval (recommended conditions of consent)

1. Except as expressly provided by these general terms of approval or the conditions of an in-force environment protection licence, works and activities must be carried out in accordance with the proposal contained in:
 - development application DA2018/41 provided by Forbes Shire Council to the EPA on 5 October 2018;
 - the statement of environment effects "Daroobalige waste depot expansion" (Geolyse, September 2018) provided by Forbes Shire Council to the EPA on 5 October 2018; and
 - the letter "Daroobalige landfill expansion" (Geolyse, 8 March 2019) provided by Forbes Shire Council to the EPA on 20 March 2019.
2. The licensee must carry out monitoring in accordance with the requirements of the in-force environment protection licence.

New landfill cells (stage 4)

3. The licensee must not dispose of any waste in any new landfill cell until the licensee has written approval from the EPA to dispose of waste in that cell.
4. At least six months before the licensee intends to construct a new landfill cell (Stage 4 cells), the licensee must provide a report to the EPA which details the proposed design, construction, operation and rehabilitation of that cell. The report must include technical drawings, materials specifications and details of a construction quality program which can demonstrate that the landfill cell will meet the minimum standards outlined in the in-force solid waste landfill guidelines.

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Attachment B

Proposed additional licence conditions

L1 Pollution of waters

- Discharges of liquid from the premises must not contain more than 0.9 mg/L of total ammonia.

P1 Location of monitoring/discharge points and areas

Water and land

EPA identification no.	Type of monitoring point	Type of discharge point	Location description
6	Groundwater quality monitoring		BH5 indicated on Figure 33 (Geolyse, 2018).
7	Groundwater quality monitoring		BH6 indicated on Figure 33 (Geolyse, 2018).
8	Discharge to waters	Overflow quality monitoring	Surface water pond indicated on Figure 33 (Geolyse, 2018).
9	Leachate quality and volume monitoring		Leachate sump
10	Leachate quality and volume monitoring		Leachate utilisation area

M2.2 Water and/ or Land Monitoring Requirements

POINT 1

Replace "POINT 1" with "POINT 1, 8".

POINT 2,3,4,5

Replace "POINT 2,3,4,5" with "POINT 2,3,4,5,6,7".

M7 Requirement to Monitor Volume or Mass

For each discharge point or utilisation area specified below, the licensee must monitor:

- the volume of liquids discharged to water or applied to the area;
 - the mass of solids applied to the area;
 - the mass of pollutants emitted to the air;
- at the frequency and using the method and units of measure, specified below.

POINT 9

Frequency	Unit of Measure	Sampling method
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Daily during any discharge	kilolitres per day	By Calculation (volume flow rate or pump capacity multiplied by operating time)
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O6 Waste management

1. At least twelve months, prior to the cessation of planned landfilling of waste in the existing landfill cells at the premises, the licensee must submit to the EPA a closure plan prepared in accordance with Section 76 of the *Protection of the Environment Operations Act 1997*.
2. The licensee must not dispose of any waste in any new landfill cell until the licensee has written approval from the EPA to dispose of waste in that cell.
3. At least six months before the licensee intends to construct a new landfill cell, the licensee must provide a report to the EPA which details the proposed design, construction, operation and rehabilitation of that cell. The report must include technical drawings, materials specifications and details of a construction quality program which can demonstrate that the landfill cell will meet the minimum standards outlined in the in-force solid waste landfill guidelines.
4. At least six months before the licensee intends to construct a new landfill cell, the licensee must provide an updated landfill environmental management plan to the EPA.
5. At least six months before the licensee intends to construct a new landfill cell, the licensee must provide a Soil and Water Management Plan (SWMP) to the EPA. The SWMP may be incorporated into the Landfill Environmental Management Plan. The SWMP must describe the measures that will be employed to:
 - minimise soil erosion and the discharge of sediment and other pollutants to lands and/or waters during construction activities.
 - manage surface water and leachate during landfilling activities to minimise soil erosion and the discharge of sediment and other pollutants to lands and/or waters during landfilling activities.The SWMP must be prepared in accordance with the requirements for such plans outlined in the "Blue Book" *Managing Urban Stormwater: Soils and Construction*.
6. The licensee must maintain the level of leachate in the new landfill cells at no greater than 300 millimetres above the upper surface of the base liner.
7. The leachate irrigation application rate must not exceed the capacity of the land to absorb the nutrient, salt, organic and hydraulic loadings supplied by the leachate.

